

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on page 10, line 19, as follows:

The present invention will now be described in detail with reference to the following examples and figures ~~in which~~ figure:

FIGURE 1 is a schematic presentation of the region between exon 7 and the 3' UTR of the vitamin D receptor gene.

Please also amend the specification by inserting the following Tables 1-4 on page 17 after the paragraph ending "implications of our results."

TABLE 1.
Characteristics of the Population According to VDR Genotype

CHARACTERISTIC†	VDR GENOTYPE						P-VALUE
	11	12	13	22	23	33	
Number (%)	493 (24.9)	735 (37.2)	202 (10.2)	351 (17.7)	170 (8.6)	27 (1.4)	
Age (years)	67.0 ± 6.8	67.1 ± 6.8	67.2 ± 7.1	67.0 ± 7.1	66.9 ± 6.8	67.0 ± 7.1	0.93§
Body Mass Index (kg/m ²)	26.1 ± 3.7	26.0 ± 3.3	25.8 ± 3.6	26.1 ± 1.34	26.0 ± 3.2	25.5 ± 2.9	0.78
Dietary calcium-intake (mg / day)	1116 ± 350	1122 ± 364	1122 ± 356	1092 ± 369	1094 ± 342	1158 ± 254	0.78
Serum HDL-cholesterol (mmol/l)	1.34 ± 0.37	1.35 ± 0.36	1.36 ± 0.34	1.35 ± 0.37	1.32 ± 0.33	1.36 ± 0.38	0.91
Serum cholesterol (mmol/l)	6.68 ± 1.21	6.63 ± 1.26	6.64 ± 1.16	6.60 ± 1.19	6.59 ± 1.21	6.60 ± 0.96	0.95
Current smoker (%)	130 (26.4)	172 (23.4)	45 (22.3)	78 (22.2)	40 (23.5)	6 (22.2)	0.83¶

† Values are means ± standard deviation; BMI is weight divided by the square height

§ P-value for ANOVA

¶ P-value for Chi-2 test

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CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{llc}
1420 Fifth Avenue
Suite 2300
Seattle, Washington 98101
206.682.8100

TABLE 2.

Myocardial infarction According to *VDR* allele 1 Genotype

	Men		Women		All	
	MI (%)	Total	MI (%)	Total	MI (%)	Total
Total	151 (15.8)	954	62 (6.1)	1024	213 (10.8)	1978
<i>by VDR allele 1 genotype</i>						
Reference†	39 (14.7)	266	10 (3.5)	282	49 (8.9)	548
Heterozygotes	69 (15.4)	449	31 (6.4)	488	100 (10.7)	937
Homozygotes	43 (18.0)	239	21 (8.3)	254	64 (13.0)	493
χ^2	1.18		5.38		4.43	
P-VALUE	0.55		0.07		0.11	
<i>Odds Ratios for Myocardial Infarct by VDR allele 1 genotype [95% CI]</i>						
Crude						
Reference	1.00		1.00		1.00	
Heterozygotes	1.07 [0.72 – 1.71]		1.86 [0.90 – 3.85]		1.23 [0.86 – 1.76]	
Homozygotes	1.28 [0.80 – 2.05]		2.48 [1.15 – 5.39]		1.53 [1.03 – 2.21]	
per copy <i>VDR</i> 1 allele	1.13 [0.892 – 1.44]		1.53 [1.07 – 2.20]		1.24 [1.02 – 1.51]	
Age-, BMI-adjusted						
Reference†	1.00		1.00		1.00	
Heterozygotes	1.11 [0.72 – 1.71]		1.77 [0.85 – 3.68]		1.22 [0.85 – 1.75]	
Homozygotes	1.33 [0.82 – 2.14]		2.45 [1.12 – 5.34]		1.55 [1.04 – 2.30]	
per copy <i>VDR</i> 1 allele	1.15 [0.91 – 1.47]		1.53 [1.06 – 2.22]		1.25 [1.02 – 1.52]	

† "Reference" includes *VDR* genotypes 22, 23, 33; "Heterozygotes" includes 12, 13;

"Homozygotes" includes 11

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 CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{llc}
 1420 Fifth Avenue
 Suite 2800
 Seattle, Washington 98101
 206.682.8100

TABLE 3.
Myocardial Infarction According to VDR allele 1 Genotype by Quartiles of Dietary Calcium Intake

	< 877 mg/day		> 877, < 1076		> 1076, < 1302		≥ 1302	
	MI (%)		MI (%)		MI (%)		MI (%)	
	Total		Total		Total		Total	
Total	43 (10.)	432	50 (11.6)	431	45 (10.4)	432	49 (11.4)	430
by VDR allele 1 genotype								
Reference [†]	13 (9.9)	131	14 (12.5)	112	12 (9.6)	125	3 (2.6)	114
Heterozygotes	21 (10.5)	200	24 (11.8)	204	21 (10.0)	210	26 (12.6)	207
Homozygotes	9 (8.9)	101	12 (10.4)	115	12 (12.4)	97	20 (18.3)	109
χ^2	0.19		0.25		0.53		14.17	
P-VALUE	0.91		0.88		0.77		0.0008	
Odds Ratios for Myocardial Infarction by VDR allele 1 genotype [95% CI]								
Crude								
Reference	1.00		1.00		1.00		1.00	
Heterozygotes	1.09 [0.52 - 2.27]		0.93 [0.46 - 1.89]		1.04 [0.49 - 2.20]		5.40 [1.59 - 18.3]	
Homozygotes	0.90 [0.37 - 2.20]		0.82 [0.36 - 1.87]		1.32 [0.56 - 3.09]		8.31 [2.39 - 29.0]	

† "Reference" includes VDR genotypes 22, 23, 33; "Heterozygotes" includes 12, 13; "Homozygotes" includes 11

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 CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{LLC}
 1420 Fifth Avenue
 Suite 2300
 Seattle, Washington 98101
 206.682.8100

TABLE 4.
Myocardial Arrhythmias According to VDR allele 1 Genotype by Quartiles of Dietary Calcium Intake

	< 877 mg/day		> 877, < 1076		> 1076, < 1302		≥ 1302	
	MA (%)	Total	MA (%)	Total	MA (%)	Total	MA (%)	Total
Total	37 (12.1)	307	27 (9.2)	292	17 (5.6)	302	31 (10.1)	306
<i>by VDR allele 1 genotype</i>								
Reference†	16 (17.0)	94	6 (8.8)	68	7 (7.7)	91	5 (5.7)	88
Heterozygotes	14 (10.1)	138	14 (10.1)	138	6 (4.4)	135	12 (8.5)	141
Homozygotes	7 (9.3)	75	7 (8.1)	86	4 (5.3)	76	14 (18.2)	77
χ^2	3.19		0.27		1.11		7.80	
P-VALUE	0.20		0.87		0.58		0.02	

Odds Ratios for Myocardial arrhythmias by VDR allele 1 genotype [95% CI]

Crude

Reference	1.00	1.00	1.00	1.00
Heterozygotes	0.57 [0.26 – 1.23]	1.13 [0.41 – 3.12]	0.54 [0.18 – 1.69]	1.60 [0.54 – 4.74]
Homozygotes	0.51 [0.20 – 1.32]	0.92 [0.29 – 2.92]	0.69 [0.19 – 2.46]	3.63 [1.22 – 10.9]

† "Reference" includes VDR genotypes 22, 23, 33; "Heterozygotes" includes 12, 13; "Homozygotes" includes 11

LAW OFFICES OF
 CHRISTENSEN O'CONNOR JOHNSON KINDNESSSM
 1420 Fifth Avenue
 Suite 2800
 Seattle, Washington 98101
 206.682.8100